Paper Reference 31761H

Pearson BTEC Level 3

Nationals Certificate,

Extended Certificate, Foundation Diploma,

Diploma, Extended Diploma

INFORMATION TECHNOLOGY

UNIT 2: CREATING SYSTEMS TO

MANAGE INFORMATION (PART S)

Window for supervised period:

Monday 13 May 2019 – Friday 17 May 2019
SUPERVISED HOURS: 10 hours plus your
                                             additional time allowance.

In the boxes below, write your name, centre number
and candidate number.

Surname	
Other names	
Centre Number	
Candidate Number	

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ITEMS INCLUDED WITH QUESTION PAPER

- **Instructions to Teachers/Tutors and/or Invigilators.**
- **Instructions for Learners.**
- **A separate Set Task Brief: Task Scenario and Task Instructions.**

YOU MUST HAVE

1906DATA.txt

activity2tables.rtf

activity3interface.rtf

activity4testing.rtf

activity5evaluation.rtf

INSTRUCTIONS

- **This booklet contains material for the completion of the set task under supervised conditions.**
- **This booklet is specific to each series and this material must only be issued to learners who have been entered to undertake the task in the relevant series.**
- **This booklet should be kept securely until the start of the 10 – hour supervised assessment period (plus your additional time allowance) and between sessions.**
- **This set task should be undertaken during the assessment period of 1 week timetabled by Pearson.**

INFORMATION

- **This booklet should not be returned to Pearson.**
- **Answer ALL activities.**
- **The total mark for this paper is 66.**

SET TASK

TASK ACTIVITIES

YOU MUST COMPLETE ALL ACTIVITIES WITHIN THE SET TASK.

PRODUCE YOUR DOCUMENTS USING A COMPUTER.

SAVE YOUR DOCUMENTS IN YOUR FOLDER READY FOR SUBMISSION USING THE FORMATS AND NAMING CONVENTIONS INDICATED.

ACTIVITY 1 is on the next page.

ACTIVITY 1: DATABASE RELATIONSHIP SCREENPRINT – You are advised to spend 1 hour 30 minutes (plus your additional time allowance) on this activity.

Create an efficient database structure that minimises data duplication. Ensure you use all and only the fields provided.

Screen print your ERD.

Save your ERD screenprint as a PDF in your folder for submission as

activity1erd_[Registration number #]_ [surname]_[first letter of first name]

(TOTAL FOR ACTIVITY 1 = 8 MARKS)

ACTIVITY 2: TABLE STRUCTURES AND VALIDATION – You are advised to spend 1 hour 30 minutes (plus your additional time allowance) on this activity.

Create an efficient table structure based on your ERD screenprint from ACTIVITY 1.

Evidence your table structures and validation as screenprints using the given **activity2tables.rtf** template.

Display your screenprints to show:

- **the design view of each table showing the structure, including the fields and data types**

- **validation including suitable:**

    - **presence checks**

    - **length checks**

    - **value lookups**

    - **table lookups**

    - **range checks**

    - **format checks (if appropriate).**

Save your evidence of the database structure as a PDF in your folder for submission as

activity2tables_[Registration number #]_ [surname]_[first letter of first name]

(TOTAL FOR ACTIVITY 2 = 8 MARKS)

ACTIVITY 3: INTERFACE AND FUNCTIONALITY – **You are advised to spend 3 hours (plus your additional time allowance) on this activity.**

(a) **Create an efficient interface.**

Evidence your interface as screenprints using the given activity3interface.rtf template.

Display a screenprint of your object names.

Display other screenprints to show:

MENU

- **the DESIGN view and FORM view of the menu you have created**

- **details of macros/code you have created and used with the menu**

FORMS

- **the DESIGN view and FORM view of all the forms you have created**

- **the DESIGN view of any queries you have created and used with the forms, including fields and criteria**

Turn over

- the **DATASHEET** view of any queries you have created and used with the forms

- details of any calculations, validation and macros/code you have created and used with the forms

QUERIES

- the **DESIGN** view of the four queries specified in the **Task Instructions** that you have created, including fields and criteria

- the **DATASHEET** view of the four queries specified in the **Task Instructions** that you have created

REPORT

- the **DESIGN** view of the report you have created, including grouping and calculations

- the **DESIGN** view of any queries you have created and used with the report, including fields and criteria

- the **DATASHEET** view of any queries you have created and used with the report.

Ensure sufficient information is provided to allow a competent third party to maintain the database.

Save the evidence of your interface as a PDF in your folder for submission as

activity3interface_[Registration number #]_ [surname]_[first letter of first name]

(b) Save your database report (not a screenprint) as a PDF in your folder for submission as

activity3report_[Registration number #]_ [surname]_[first letter of first name]

(TOTAL FOR ACTIVITY 3 = 26 MARKS)

ACTIVITY 4: TESTING – You are advised to spend 2 hours 45 minutes (plus your additional time allowance) on this activity.

Complete a test log to show how you have tested your input forms using the given **activity4testing.rtf** template.

Save your test log as a PDF in your folder for submission as

activity4testing_[Registration number #]_[surname]_[first letter of first name]

(TOTAL FOR ACTIVITY 4 = 12 MARKS)

ACTIVITY 5: EVALUATION OF YOUR DATABASE SOLUTION – You are advised to spend 1 hour (plus your additional time allowance) on this activity.

Evaluate your solution using the given **activity5evaluation.rtf** template.

When completing the template you should consider:

- how well your solution meets the requirements of the scenario
- the quality, performance and usability of the database
- the changes made during the development and testing process.

Save your evaluation as a PDF in your folder for submission as

activity5evaluation_[Registration number #]_ [surname]_[first letter of first name]

(TOTAL FOR ACTIVITY 5 = 12 MARKS)

TOTAL FOR TASK = 66 MARKS